

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100121\
 Data File : VU045079.D
 Acq On : 01 Oct 2021 17:35
 Operator : SY/MD
 Sample : M3951-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 02 03:13:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

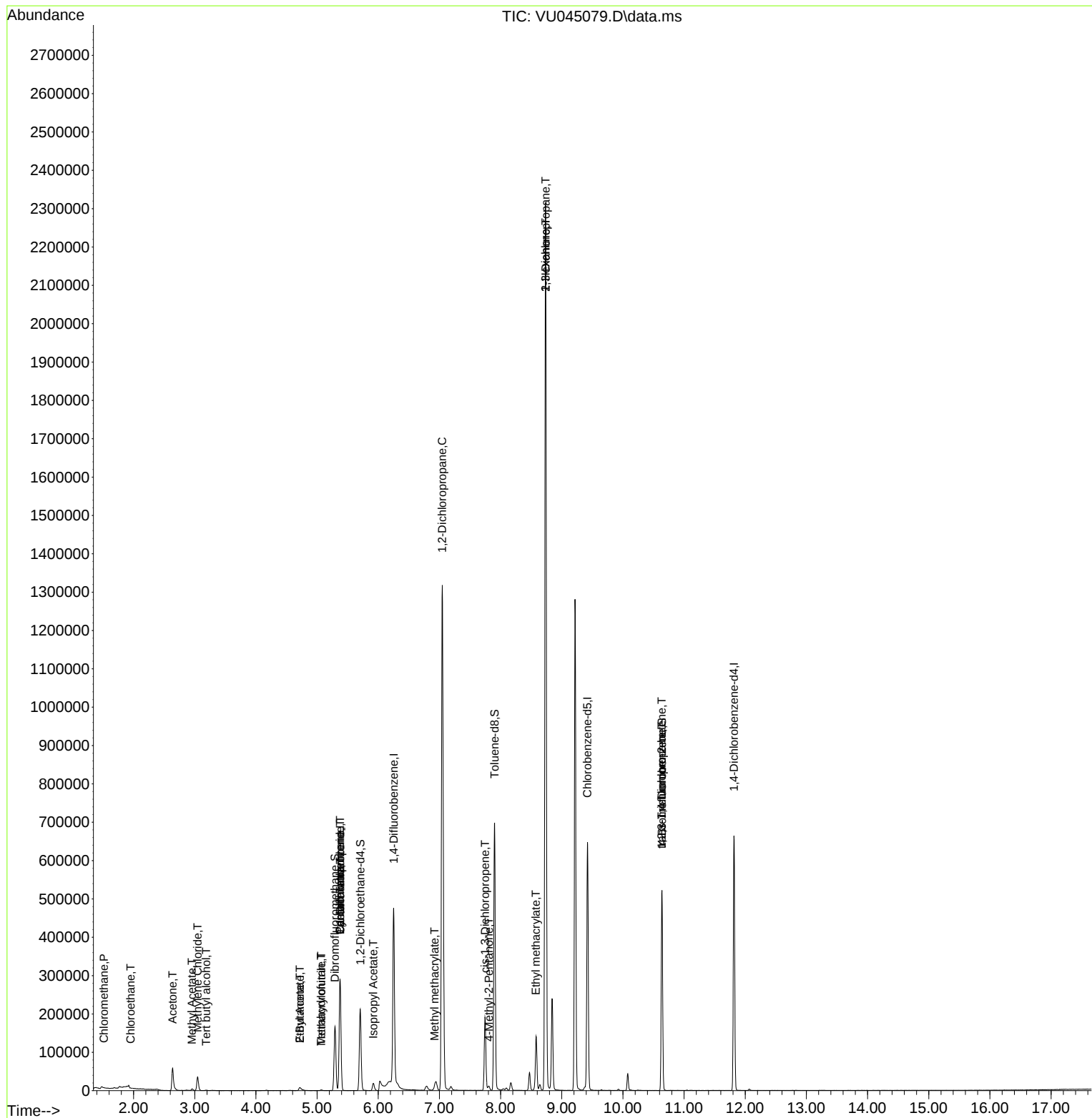
Internal Standards						
1) Pentafluorobenzene	5.375	168	188423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	348707	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	342225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	159963	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	159316	50.794	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 101.580%	
35) Dibromofluoromethane	5.292	113	107742	48.979	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.960%	
50) Toluene-d8	7.902	98	449627	51.731	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.460%	
62) 4-Bromofluorobenzene	10.639	95	174947	48.754	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.500%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	765	0.253	ug/l #	82
6) Chloroethane	1.951	64	1731	0.747	ug/l #	66
11) Tert butyl alcohol	3.189	59	602	0.669	ug/l #	72
16) Acetone	2.639	43	74958	40.261	ug/l	100
18) Methyl Acetate	2.954	43	6402	1.177	ug/l #	89
20) Methylene Chloride	3.047	84	17539	6.254	ug/l	97
25) 2-Butanone	4.716	43	16981	6.420	ug/l	97
29) Tetrahydrofuran	5.066	42	695	0.441	ug/l #	78
31) Cyclohexane	5.375	56	4966	1.042	ug/l #	2
36) 1,1-Dichloropropene	5.375	75	17691	4.851	ug/l #	50
37) Ethyl Acetate	4.716	43	16981	3.519	ug/l #	69
38) Carbon Tetrachloride	5.375	117	20308	6.436	ug/l #	16
41) Methacrylonitrile	5.070	41	784	0.316	ug/l #	41
43) Isopropyl Acetate	5.919	43	23285	3.208	ug/l	99
45) 1,2-Dichloropropane	7.044	63	1879	0.653	ug/l #	45
48) Methyl methacrylate	6.918	41	9280	2.626	ug/l #	14
49) 1,4-Dioxane	7.047	88	135	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.809	43	7915	1.498	ug/l	92
54) cis-1,3-Dichloropropene	7.745	75	37033	8.255	ug/l #	60
56) Ethyl methacrylate	8.578	69	1113	2.016	ug/l #	1
57) 1,3-Dichloropropane	8.735	76	25233	4.992	ug/l #	43
59) 2-Hexanone	8.735	43	343976	79.932	ug/l #	49
76) 1,2,3-Trichloropropane	10.635	75	94085	20.165	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.635	75	94085	55.960	ug/l #	9

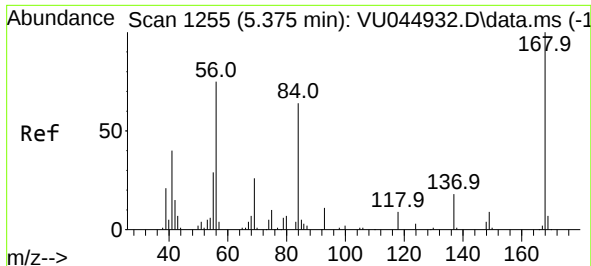
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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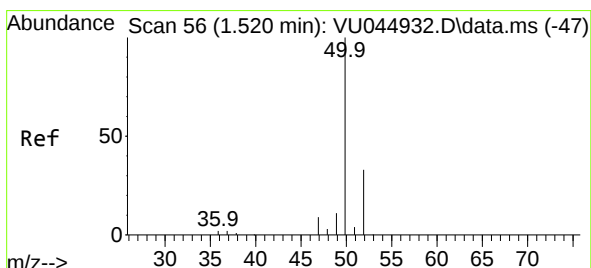
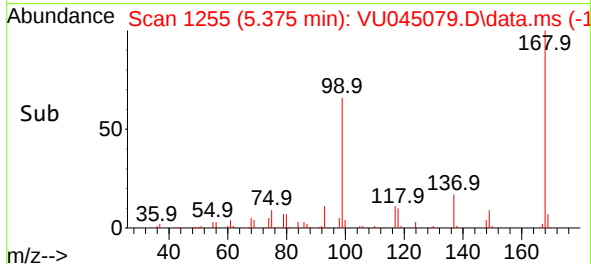
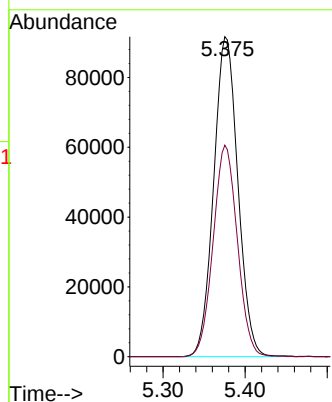
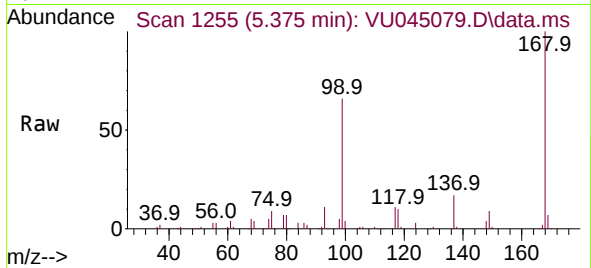




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

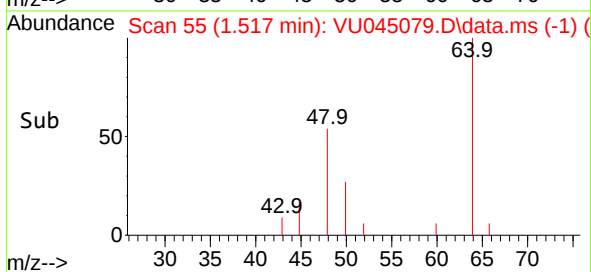
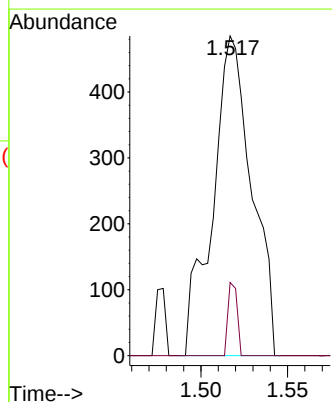
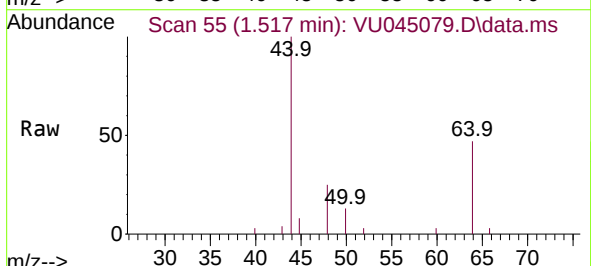
Instrument :
MSVOA_U
ClientSampleId :

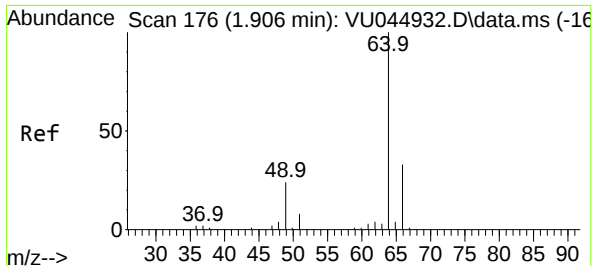
Tgt Ion:168 Resp: 188423
Ion Ratio Lower Upper
168 100
99 66.1 51.4 77.0



#3
Chloromethane
Concen: 0.253 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 50 Resp: 765
Ion Ratio Lower Upper
50 100
52 22.9 26.3 39.5#

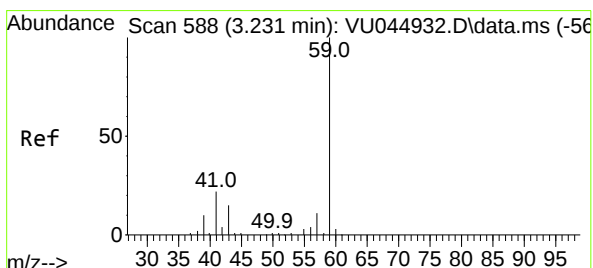
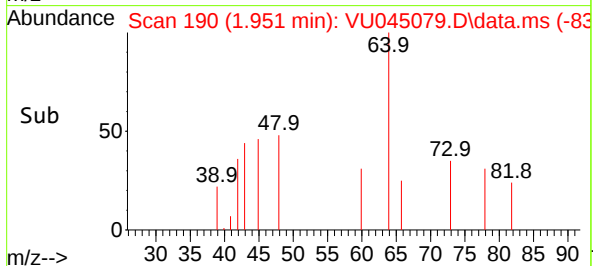
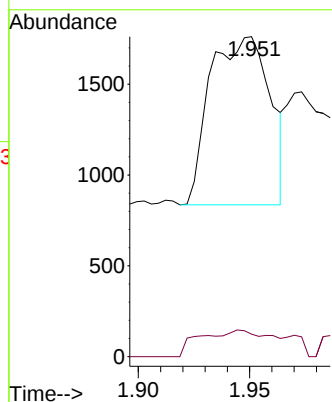
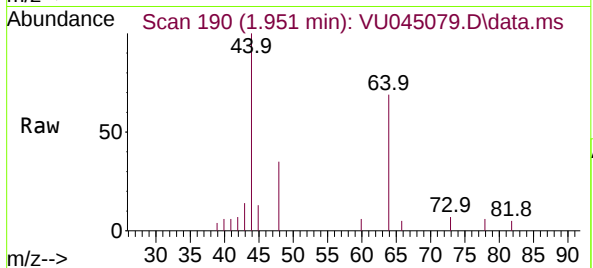




#6
Chloroethane
Concen: 0.747 ug/l
RT: 1.951 min Scan# 190
Delta R.T. 0.045 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

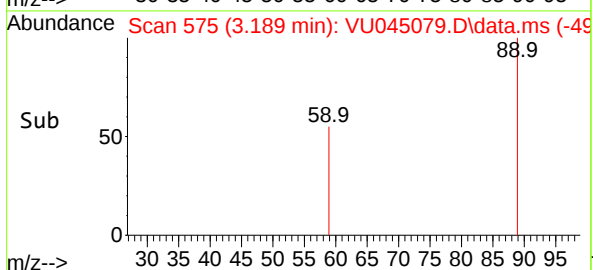
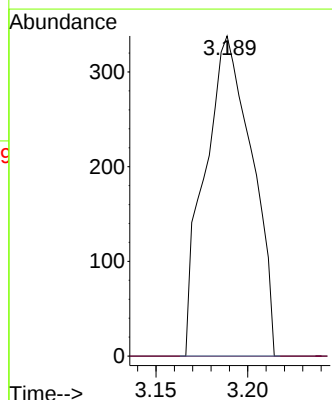
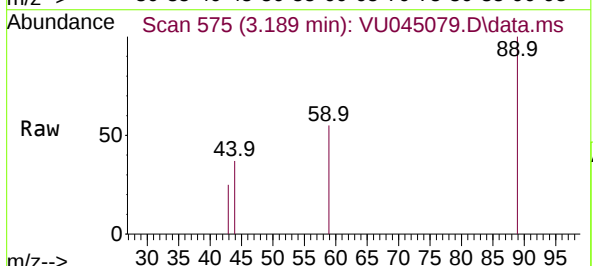
Instrument :
MSVOA_U
ClientSampled :

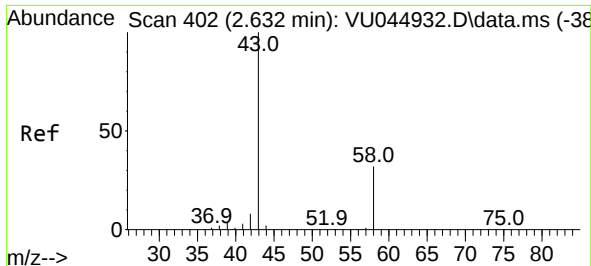
Tgt Ion: 64 Resp: 1731
Ion Ratio Lower Upper
64 100
66 13.4 25.8 38.8#



#11
Tert butyl alcohol
Concen: 0.669 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.042 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 59 Resp: 602
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

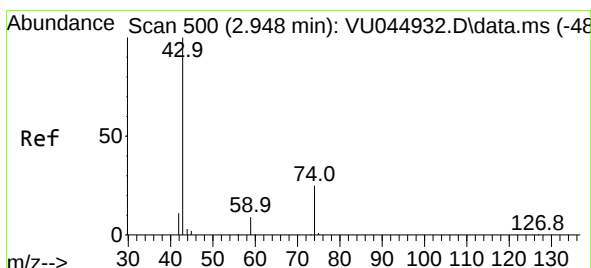
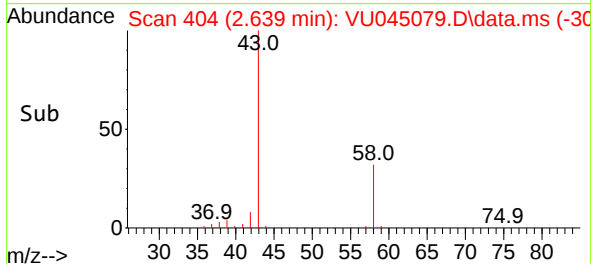
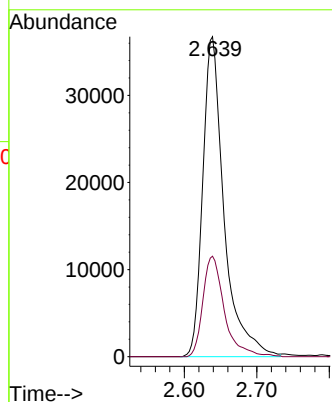
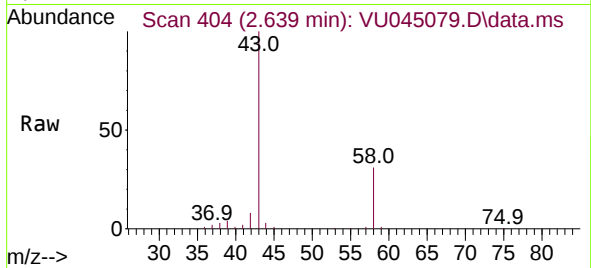




#16
Acetone
Concen: 40.261 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.007 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

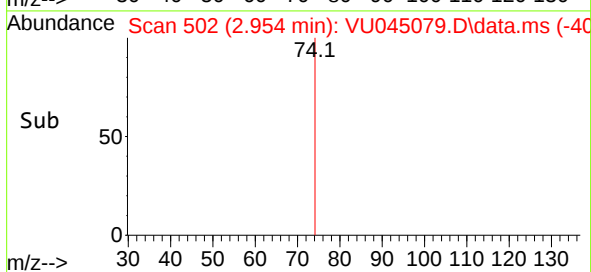
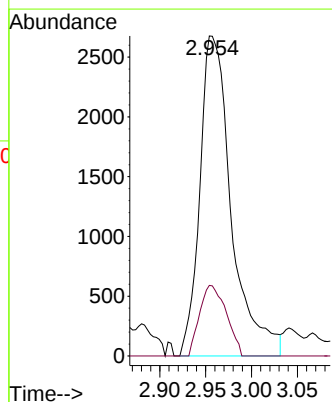
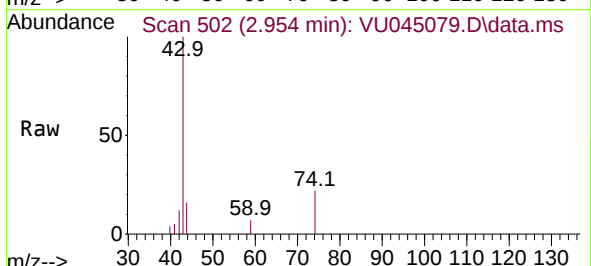
Instrument :
MSVOA_U
ClientSampleId :

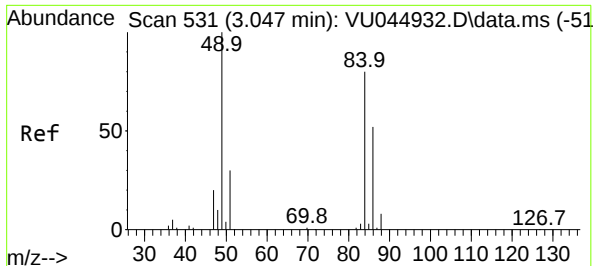
Tgt Ion: 43 Resp: 74958
Ion Ratio Lower Upper
43 100
58 31.4 25.2 37.8



#18
Methyl Acetate
Concen: 1.177 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.006 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 43 Resp: 6402
Ion Ratio Lower Upper
43 100
74 18.6 19.0 28.6#





#20

Methylene Chloride

Concen: 6.254 ug/l

RT: 3.047 min Scan# 531

Delta R.T. 0.000 min

Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

Tgt Ion: 84 Resp: 17539

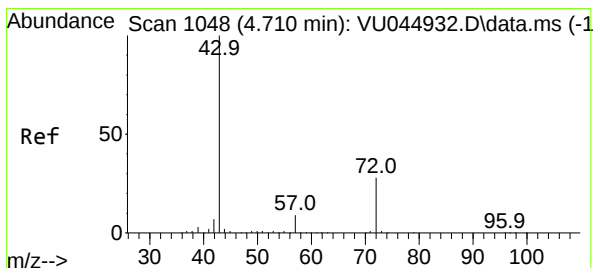
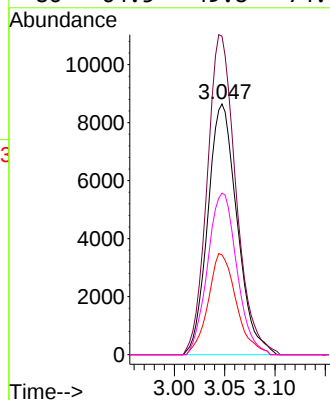
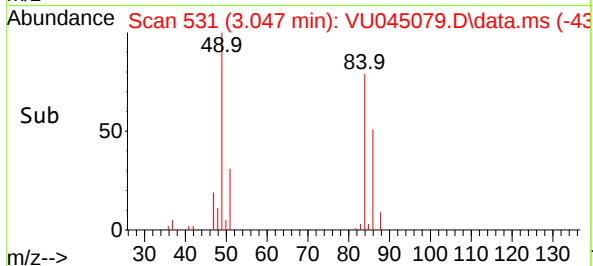
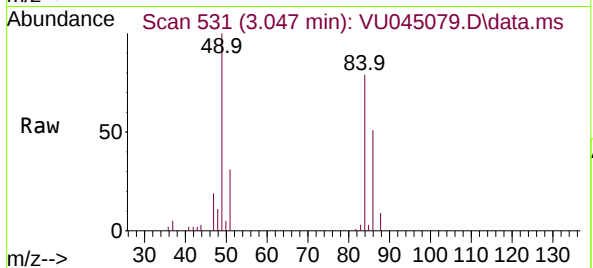
Ion Ratio Lower Upper

84 100

49 127.1 104.9 157.3

51 39.8 31.8 47.8

86 64.5 49.8 74.6



#25

2-Butanone

Concen: 6.420 ug/l

RT: 4.716 min Scan# 1050

Delta R.T. 0.006 min

Lab File: VU045079.D

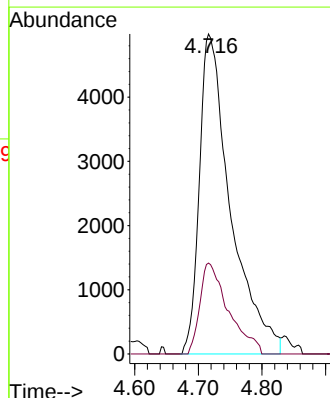
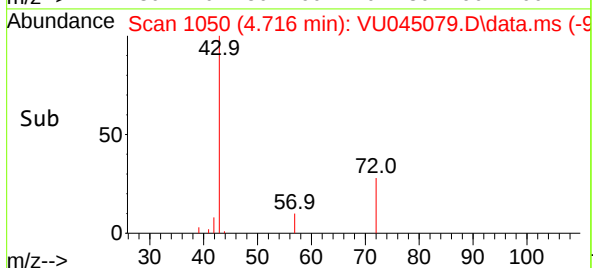
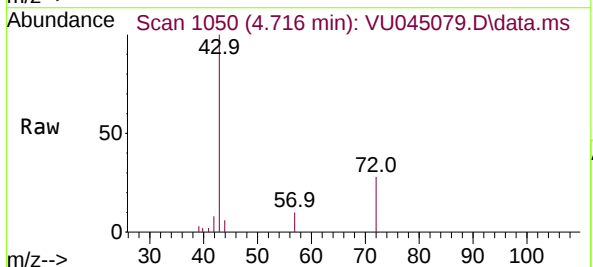
Acq: 01 Oct 2021 17:35

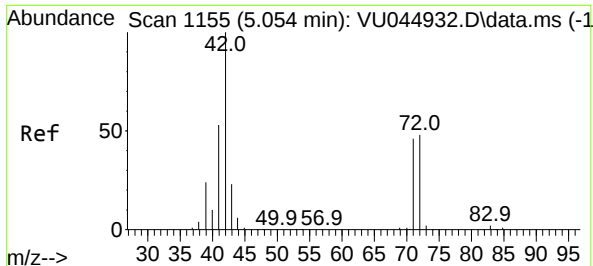
Tgt Ion: 43 Resp: 16981

Ion Ratio Lower Upper

43 100

72 28.4 21.3 31.9





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 5.066 min Scan# 1159

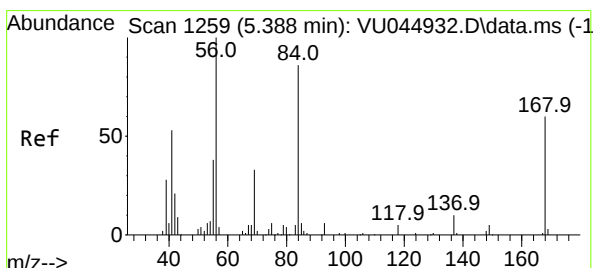
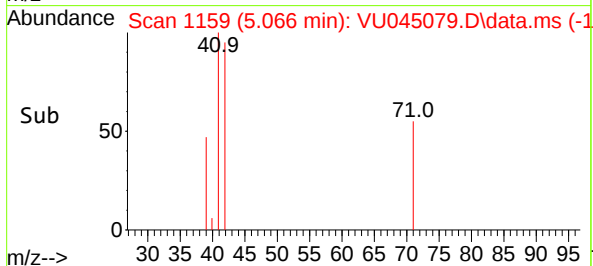
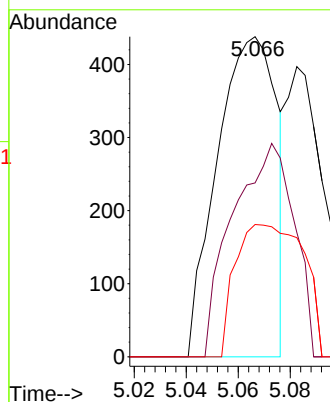
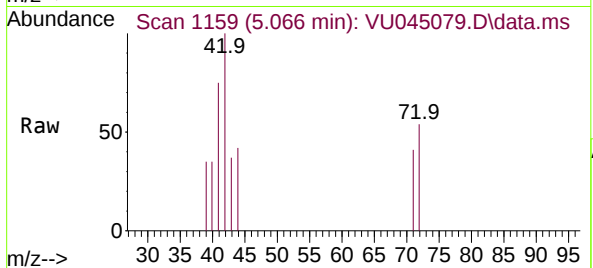
Delta R.T. 0.012 min

Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

Tgt Ion:	42	Resp:	695
Ion	Ratio	Lower	Upper
42	100		
72	68.9	36.2	54.4#
71	47.3	34.1	51.1

Instrument :
MSVOA_U
ClientSampleId :



#31

Cyclohexane

Concen: 1.042 ug/l

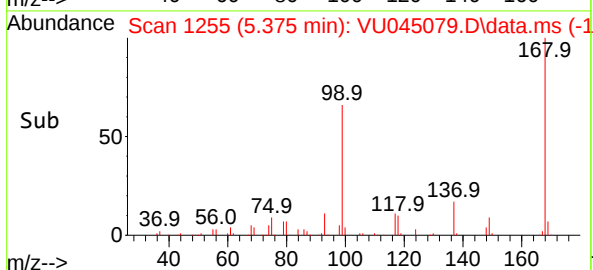
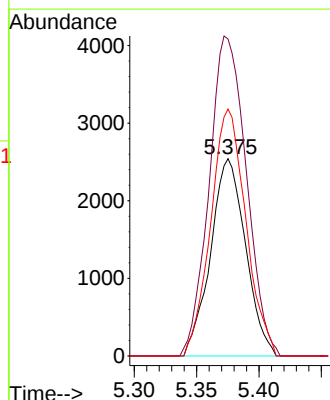
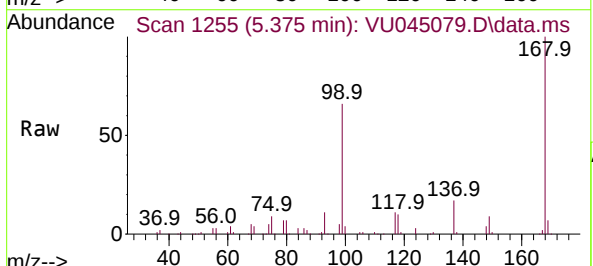
RT: 5.375 min Scan# 1255

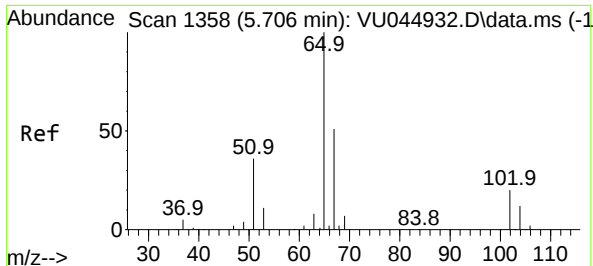
Delta R.T. -0.013 min

Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

Tgt Ion:	56	Resp:	4966
Ion	Ratio	Lower	Upper
56	100		
69	160.7	25.2	37.8#
84	125.2	66.4	99.6#



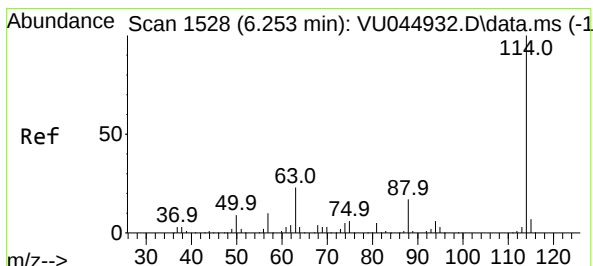
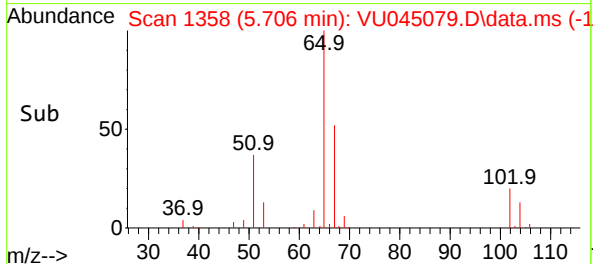
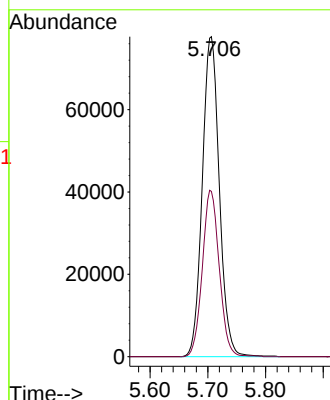
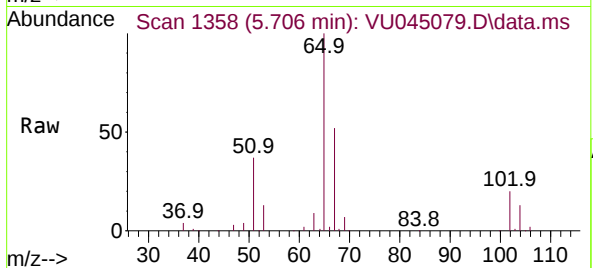


#33

1,2-Dichloroethane-d4
Concen: 50.794 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Instrument :
MSVOA_U
ClientSampled :

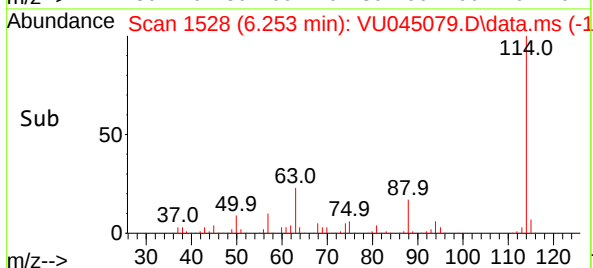
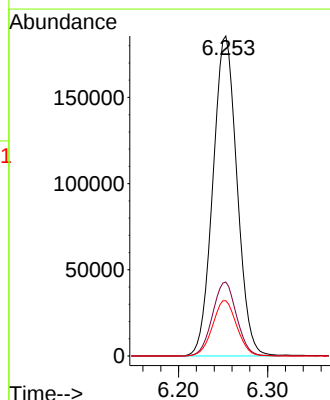
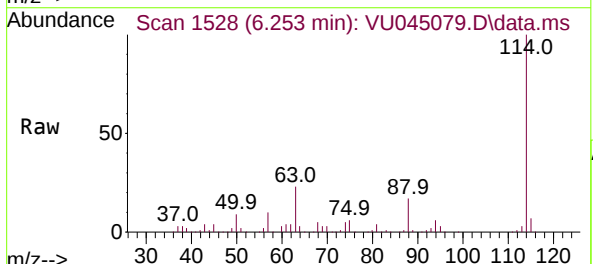
Tgt Ion: 65 Resp: 159316
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.8

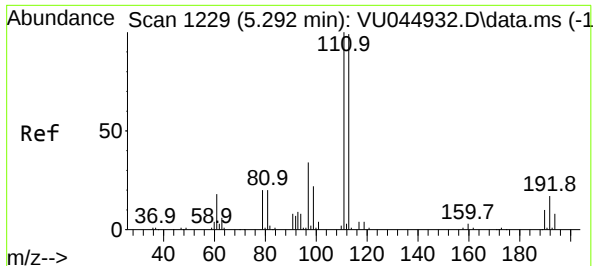


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.253 min Scan# 1528
Delta R.T. -0.000 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion:114 Resp: 348707
Ion Ratio Lower Upper
114 100
63 23.1 0.0 47.8
88 17.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.979 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

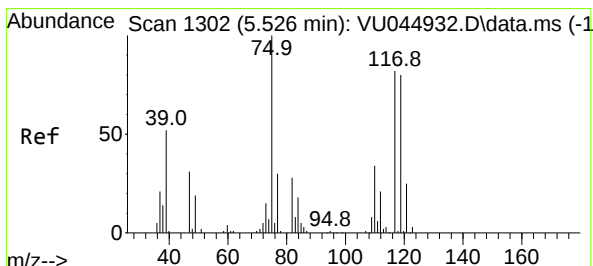
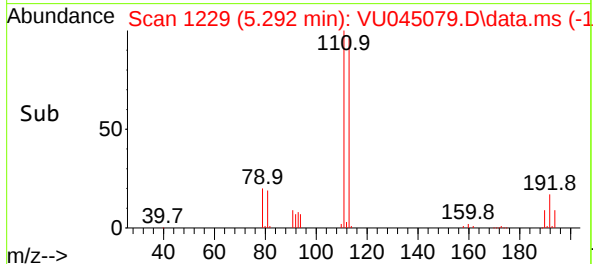
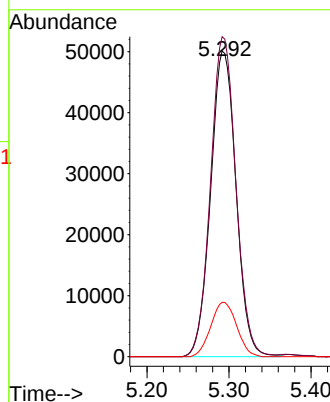
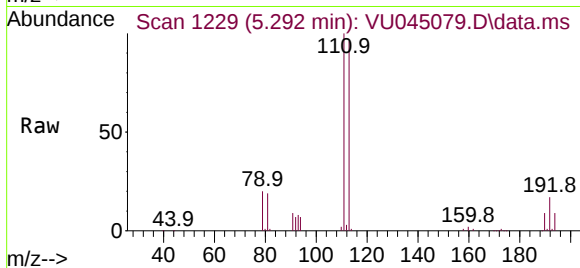
Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:113 Resp: 107742

Ion	Ratio	Lower	Upper
113	100		
111	104.4	84.1	126.1
192	18.1	14.8	22.2



#36

1,1-Dichloropropene

Concen: 4.851 ug/l

RT: 5.375 min Scan# 1255

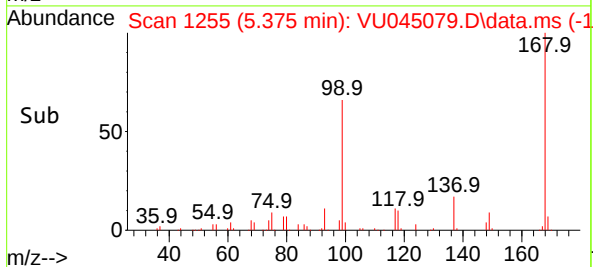
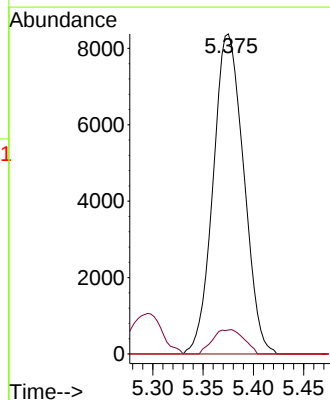
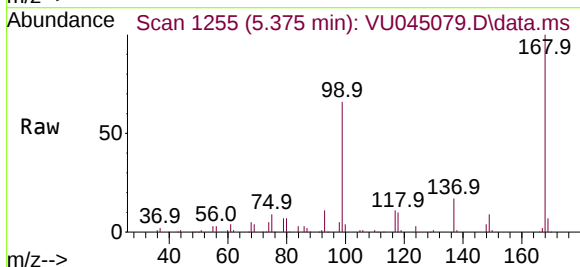
Delta R.T. -0.151 min

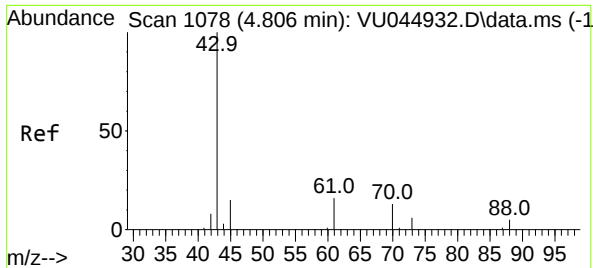
Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

Tgt Ion: 75 Resp: 17691

Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.3	48.9#
77	0.0	25.0	37.4#

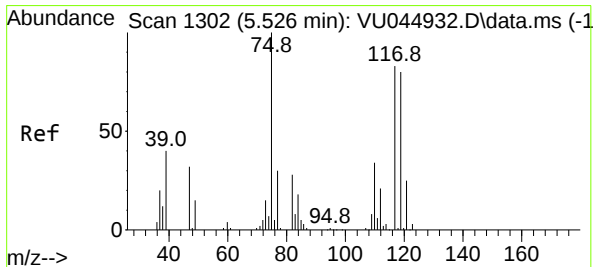
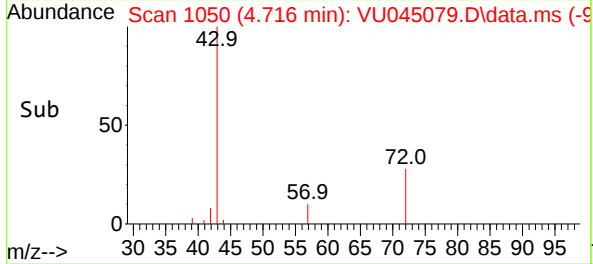
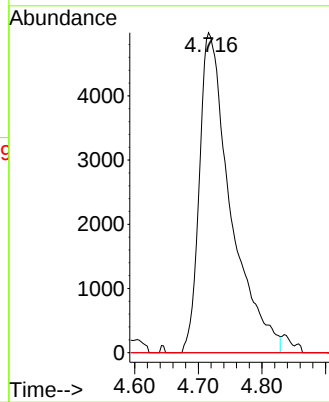
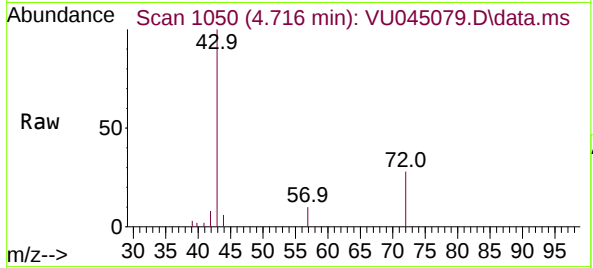




#37
Ethyl Acetate
Concen: 3.519 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. -0.090 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

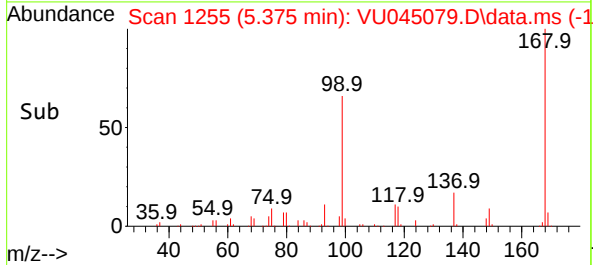
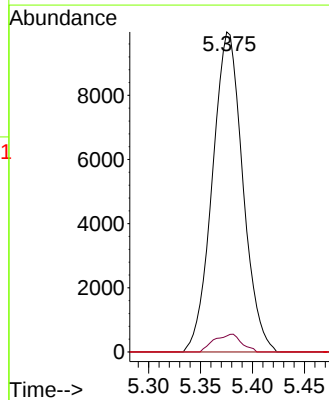
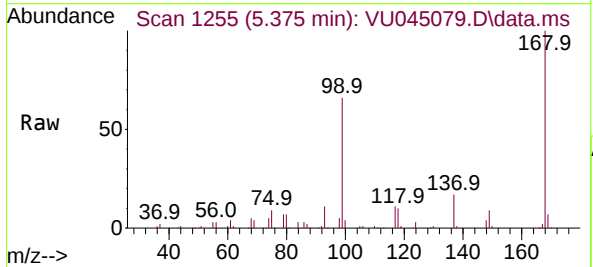
Instrument :
MSVOA_U
ClientSampleId :

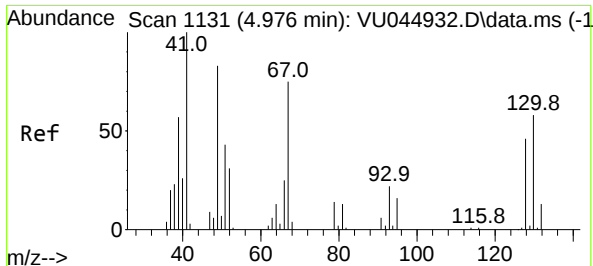
Tgt Ion:	43	Resp:	16981
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	8.2	12.4#



#38
Carbon Tetrachloride
Concen: 6.436 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion:	117	Resp:	20308
Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.4	116.2#
121	0.0	24.5	36.7#

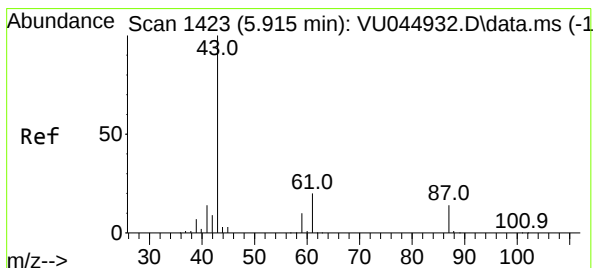
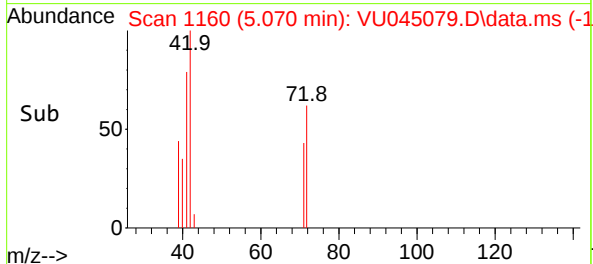
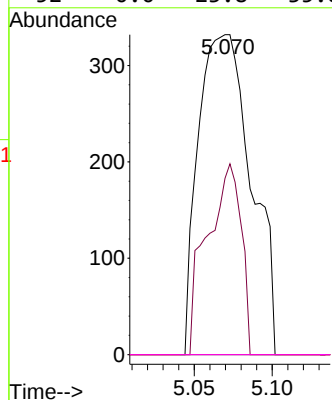
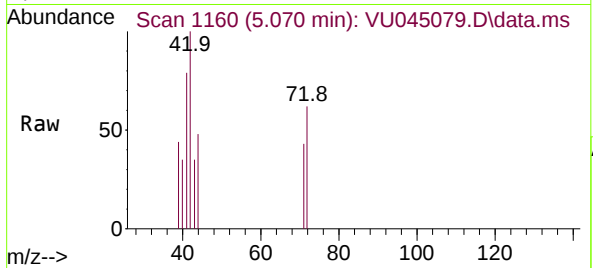




#41
Methacrylonitrile
Concen: 0.316 ug/l
RT: 5.070 min Scan# 1160
Delta R.T. 0.094 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

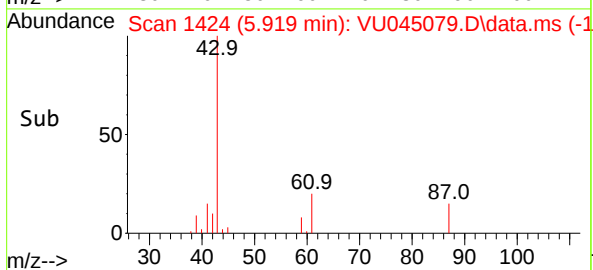
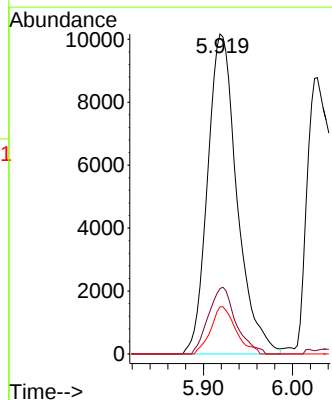
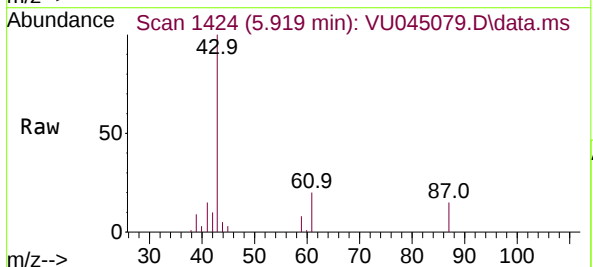
Instrument :
MSVOA_U
ClientSampleId :

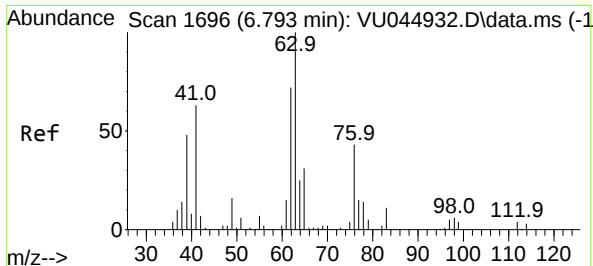
Tgt Ion:	41	Resp:	784
Ion	Ratio	Lower	Upper
41	100		
39	38.4	44.4	66.6#
67	0.0	58.1	87.1#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.208 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.004 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion:	43	Resp:	23285
Ion	Ratio	Lower	Upper
43	100		
61	19.4	16.1	24.1
87	12.6	10.3	15.5



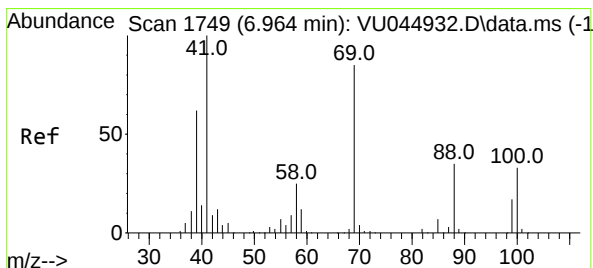
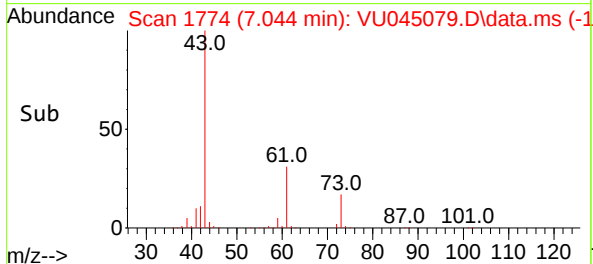
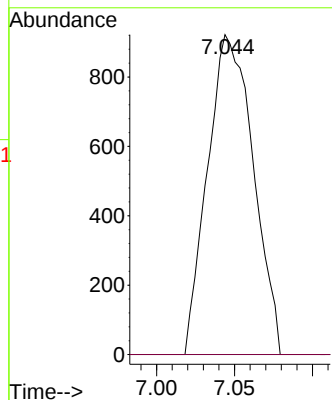
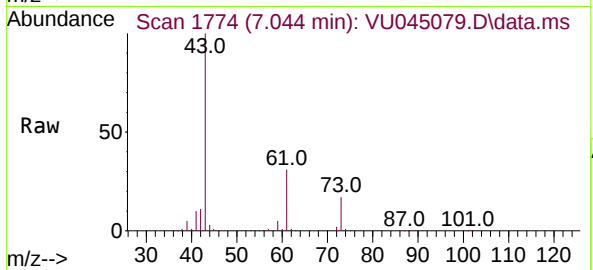


#45

1,2-Dichloropropane
Concen: 0.653 ug/l
RT: 7.044 min Scan# 1774
Delta R.T. 0.251 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Instrument :
MSVOA_U
ClientSampled :

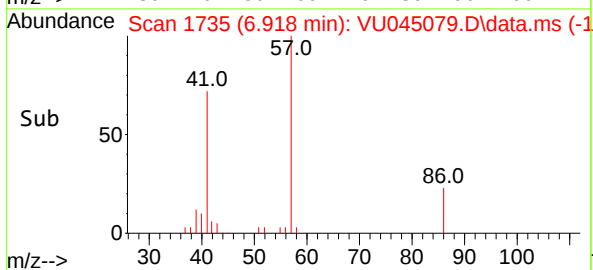
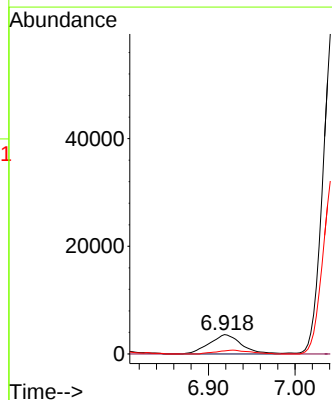
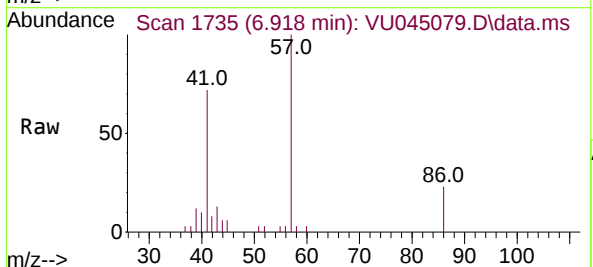
Tgt Ion: 63 Resp: 1879
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

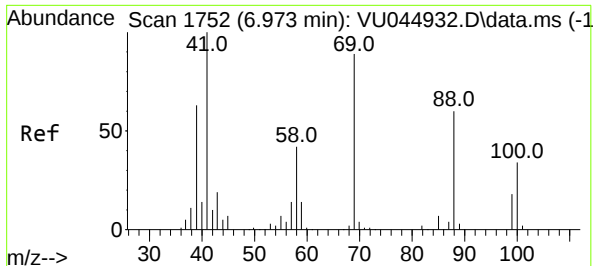


#48

Methyl methacrylate
Concen: 2.626 ug/l
RT: 6.918 min Scan# 1735
Delta R.T. -0.046 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 41 Resp: 9280
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 0.0 46.2 69.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.047 min Scan# 1775

Delta R.T. 0.074 min

Lab File: VU045079.D

Acq: 01 Oct 2021 17:35

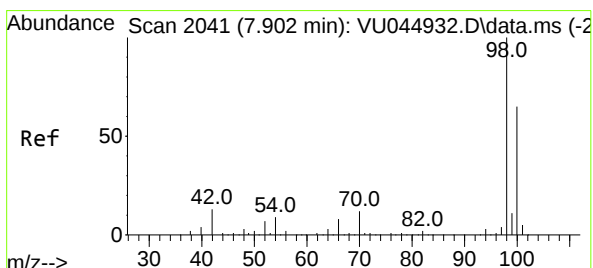
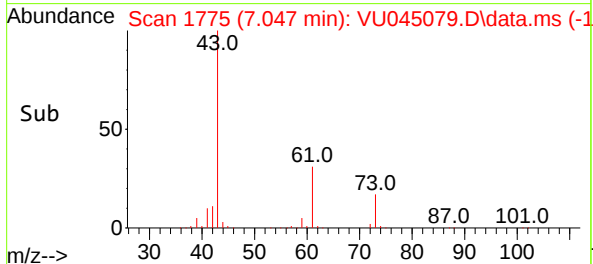
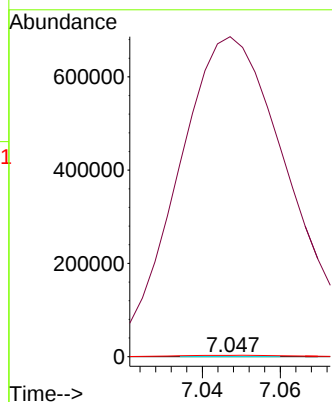
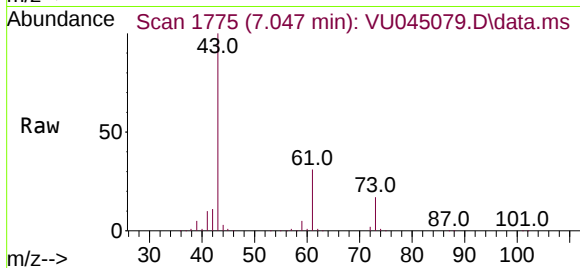
Tgt Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 1038874.8 25.8 38.6#

58 4655.6 61.3 91.9#



#50

Toluene-d8

Concen: 51.731 ug/l

RT: 7.902 min Scan# 2041

Delta R.T. 0.000 min

Lab File: VU045079.D

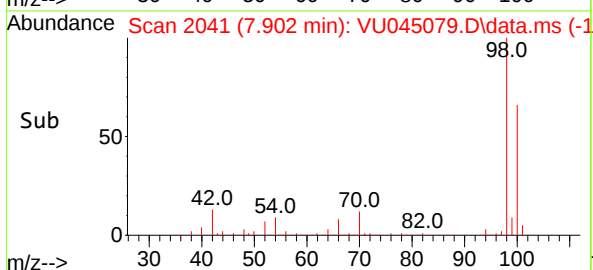
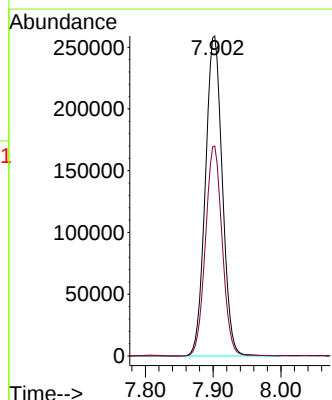
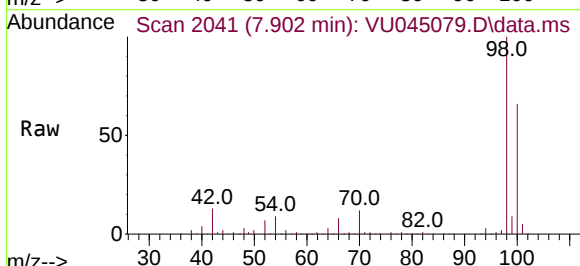
Acq: 01 Oct 2021 17:35

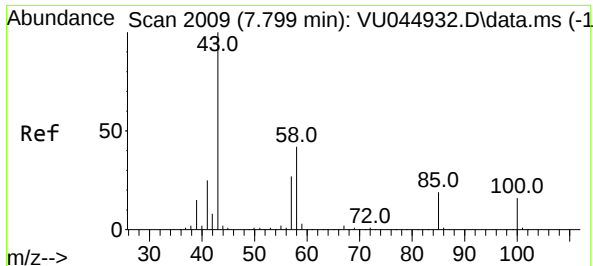
Tgt Ion: 98 Resp: 449627

Ion Ratio Lower Upper

98 100

100 65.1 52.5 78.7

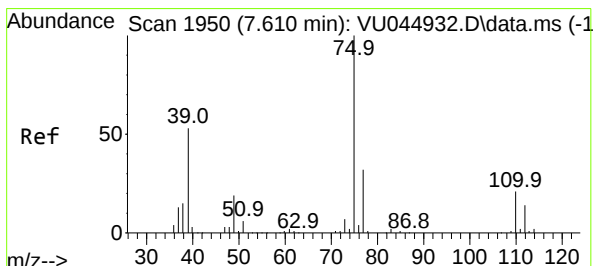
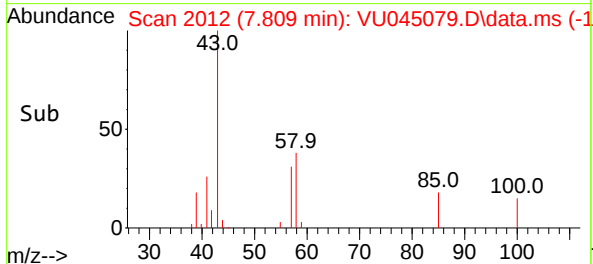
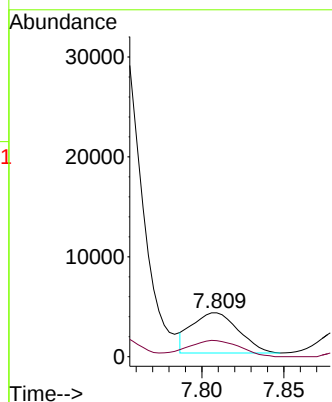
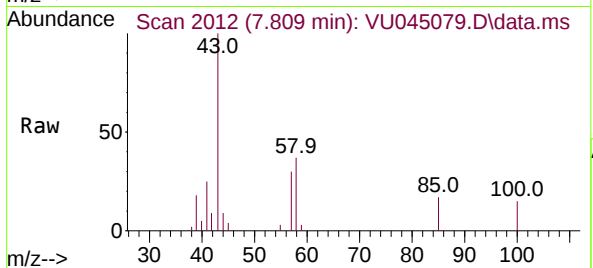




#51
4-Methyl-2-Pentanone
Concen: 1.498 ug/l
RT: 7.809 min Scan# 2012
Delta R.T. 0.010 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

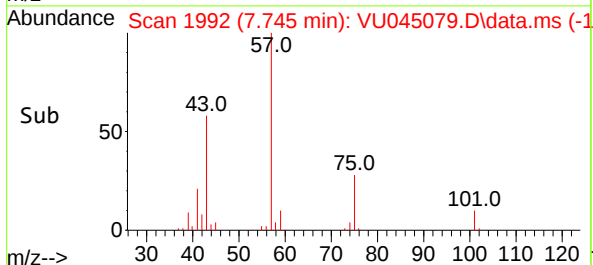
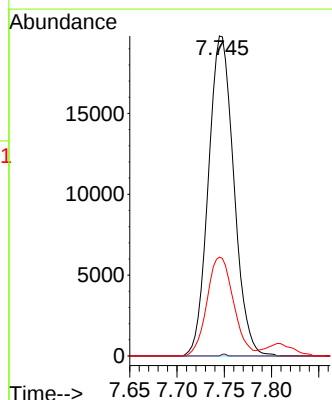
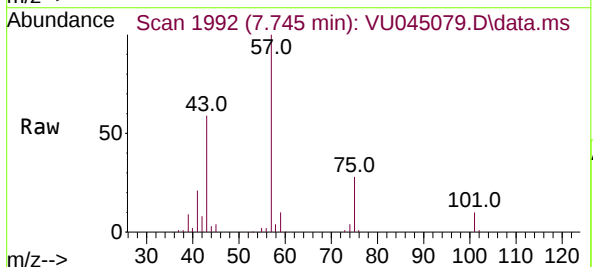
Instrument :
MSVOA_U
ClientSampleId :

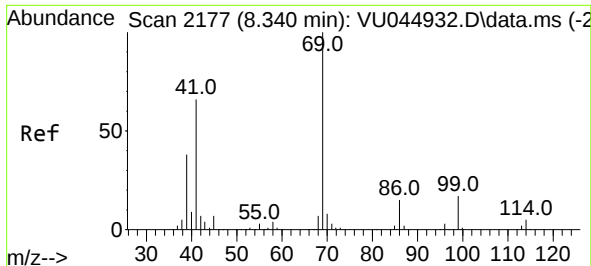
Tgt Ion: 43 Resp: 7915
Ion Ratio Lower Upper
43 100
58 45.4 32.4 48.6



#54
cis-1,3-Dichloropropene
Concen: 8.255 ug/l
RT: 7.745 min Scan# 1992
Delta R.T. 0.135 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 75 Resp: 37033
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 30.9 41.4 62.2#

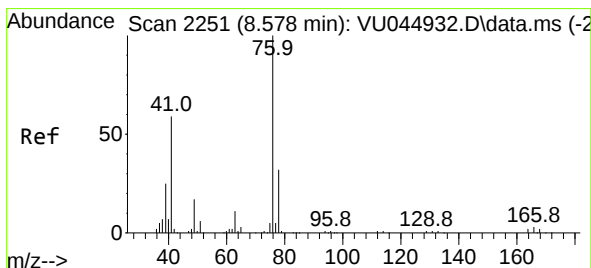
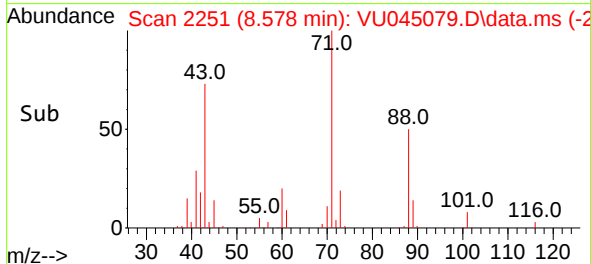
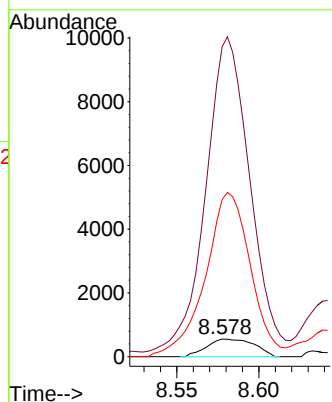
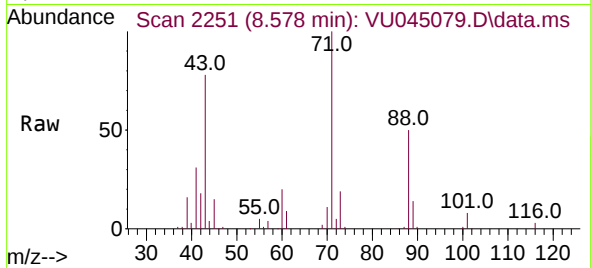




#56
Ethyl methacrylate
Concen: 2.016 ug/l
RT: 8.578 min Scan# 2251
Delta R.T. 0.238 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

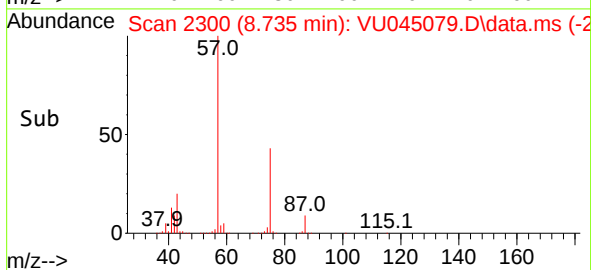
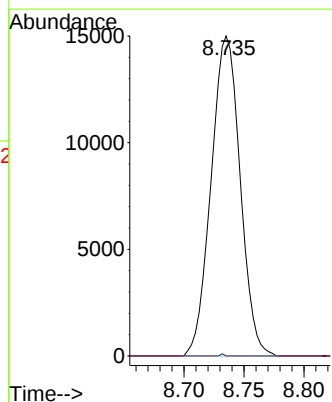
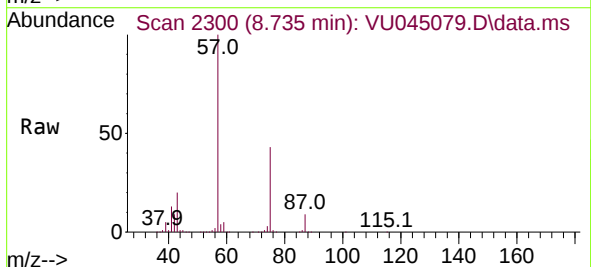
Instrument :
MSVOA_U
ClientSampled :

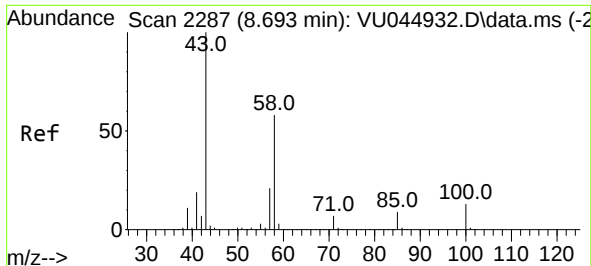
Tgt Ion: 69 Resp: 1113
Ion Ratio Lower Upper
69 100
41 1647.9 53.5 80.3#
39 883.3 31.1 46.7#



#57
1,3-Dichloropropane
Concen: 4.992 ug/l
RT: 8.735 min Scan# 2300
Delta R.T. 0.157 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 76 Resp: 25233
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#

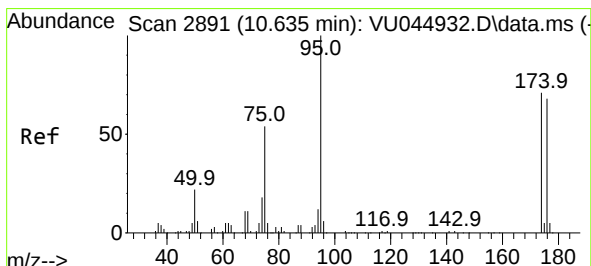
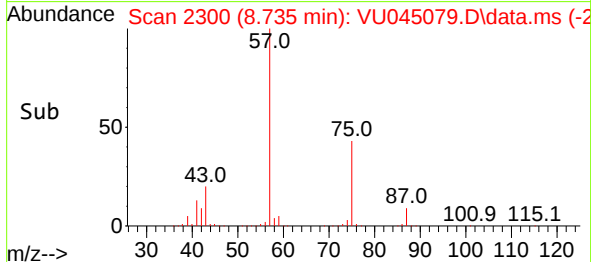
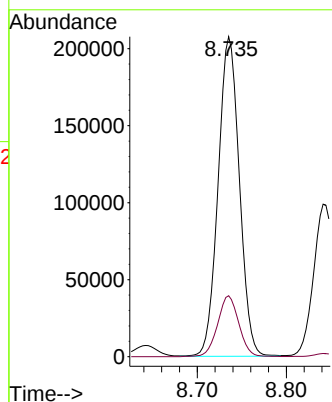
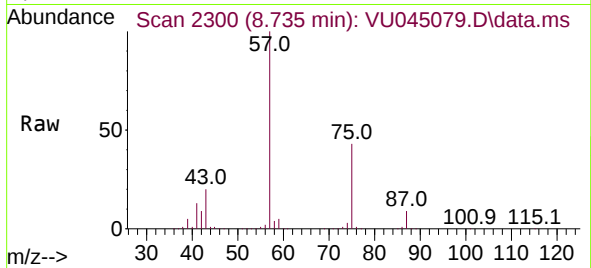




#59
2-Hexanone
Concen: 79.932 ug/l
RT: 8.735 min Scan# 2300
Delta R.T. 0.042 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

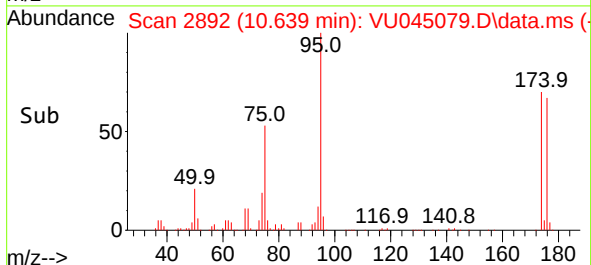
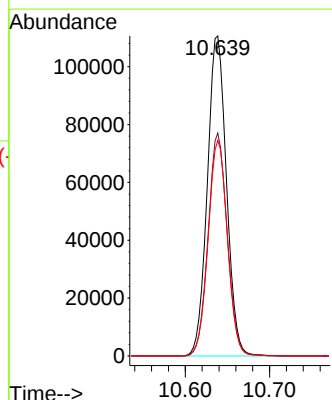
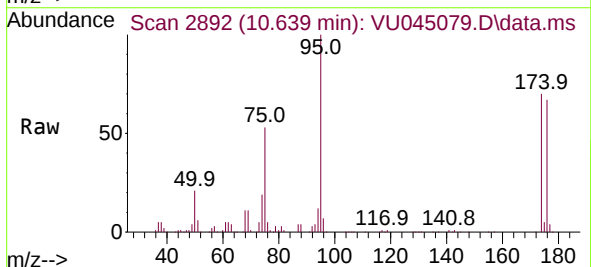
Instrument :
MSVOA_U
ClientSampleId :

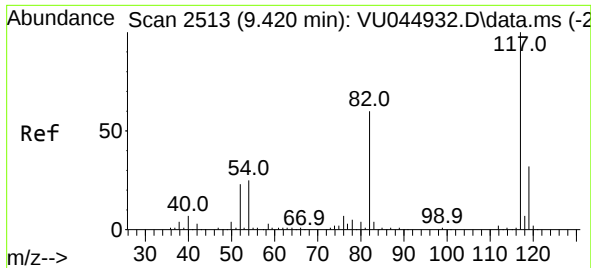
Tgt Ion: 43 Resp: 343976
Ion Ratio Lower Upper
43 100
58 19.1 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 48.754 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.004 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 95 Resp: 174947
Ion Ratio Lower Upper
95 100
174 69.5 0.0 146.6
176 67.5 0.0 141.2

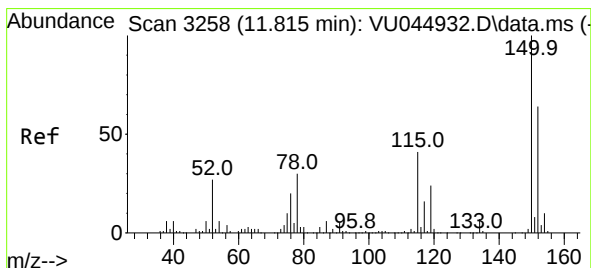
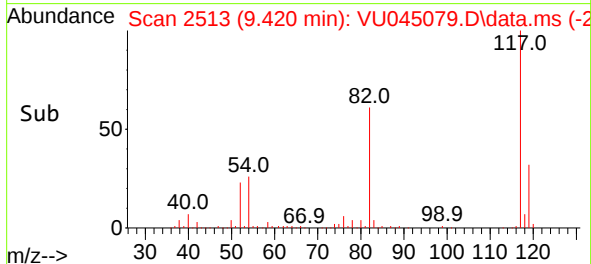
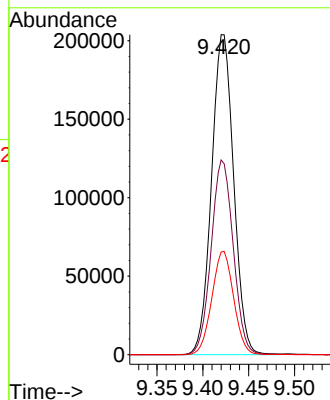
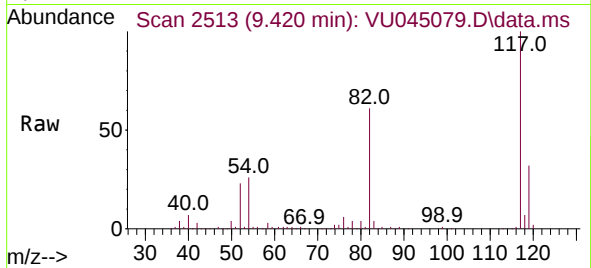




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

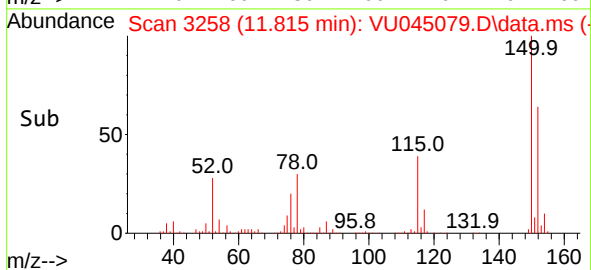
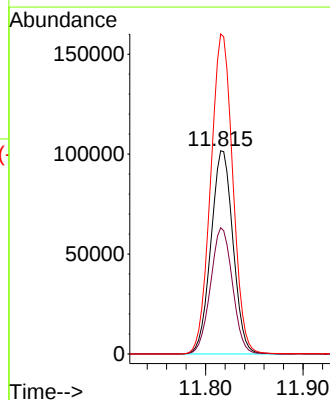
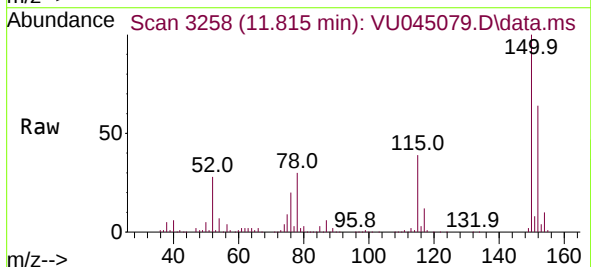
Instrument :
MSVOA_U
ClientSampleId :

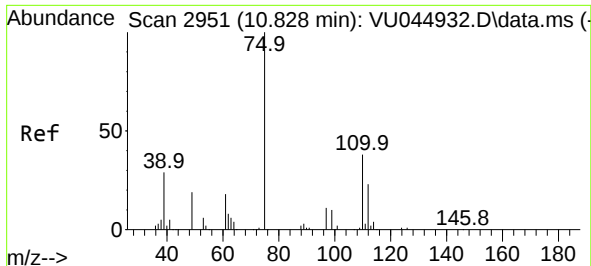
Tgt Ion:117 Resp: 342225
Ion Ratio Lower Upper
117 100
82 60.8 47.8 71.8
119 32.1 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion:152 Resp: 159963
Ion Ratio Lower Upper
152 100
115 61.9 43.5 130.7
150 158.0 0.0 350.0

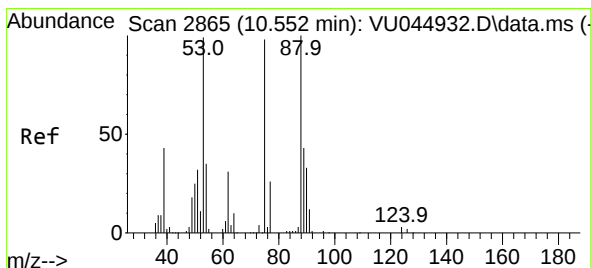
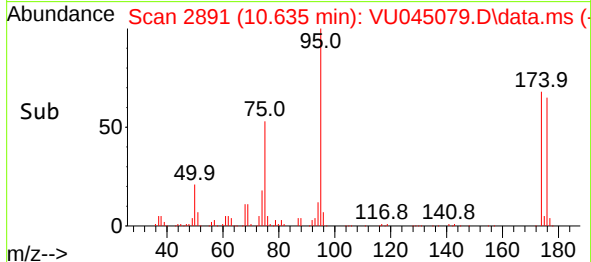
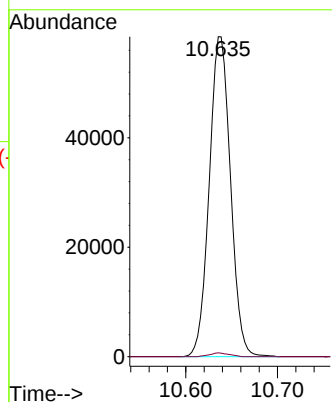
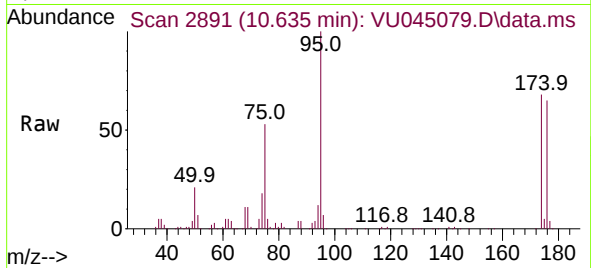




#76
1,2,3-Trichloropropane
Concen: 20.165 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 75 Resp: 94085
Ion Ratio Lower Upper
75 100
77 1.1 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.960 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.083 min
Lab File: VU045079.D
Acq: 01 Oct 2021 17:35

Tgt Ion: 75 Resp: 94085
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#

